

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



62.67

LIBRARY

RECEIVED

★ JUN 5TH 1920 ★

U. S. Department of Agriculture.

1905 CATALOGUE

Strawberry Plants

M. CRAWFORD COMPANY

CUYAHOGA FALLS

OHIO

DUFFY, PRINTER, CUYA. FALLS

== THIS == CATALOGUE

Is sent out to tell what we have to sell, and the prices; also to state that those who buy plants of us may be sure of getting their money's worth. Please look it over and see what we offer. Even if you have a perfectly satisfactory place for buying your plants, you may see something listed here that your regular dealer has not in stock this year, or you may learn something from our descriptions that will help you in making a wise selection of varieties.

Our plants were never finer than they are this year. Even varieties that are ordinarily subject to rust are green and thrifty looking. The past season was all that could be desired for the strawberry, except that it was too dry late in the fall, and this did no serious damage. We set out good, healthy plants on ground of fair fertility, and tended them so carefully that their growth was continuous and thrifty, and at the end of the season there was scarcely a weed visible on our plantation. Those who have bought of us before will find this year's stock fully up to our former high standard, and new customers will find our plants second to none in vigor and healthiness. Our collection is larger than ever before, comprising nearly a hundred varieties.

Our method of packing is so perfect that we warrant our plants to reach their destination in good order, and if by reason of delay or accident they are lost, we replace them without charge, if notified promptly. We believe that we were the first in our line of business to guarantee the safe arrival of stock.

Our firm consists of M. Crawford, his son, Wm. S. Crawford, and Wm. L. Thompson. The senior member of the company set out his first strawberry bed in 1856, and has been closely identified with this fruit ever since. In 1867 he bought more than fifty varieties from which to grow plants for sale. The same year he raised a large number of seedlings, one of which was the Sterling, introduced in 1876 by G. H. Lodge. In the spring of 1871 he removed from Cleveland to Cuyahoga Falls, where he has been engaged in the plant industry up to the present time. The other members of the firm grew up in the business from boyhood.

For many years we have paid attention to testing new varieties, and it has been our pleasure to introduce many that have become popular with the public. Among these may be named the Woolverton, Saunders, Wm. Belt, Brandywine, Nick Ohmer, Kittie Rice, Margaret, Senator Dunlap, Miller and Challenge. Our later additions to this list, Beaver, Nimrod and Victor, have been out but a short time.

Each year we make it a point to buy plants of most of the new introductions that give promise of becoming popular, and are able the following year to furnish our customers with well grown plants of these varieties at prices within the reach of all.

It is not our ambition to do an immense wholesale business, but rather to carry on a carefully conducted retail trade, making sure that every customer is well served, and given full value for his money. We sell at prices as low as are consistent with the service we render.

GLADIOLUS BULBS

So many of my bulbs are already engaged that I have but few to offer—only XX stock in first and second sizes. This is the best stock I ever offered. All colors mixed, first size, by express, 50 cents per doz., \$3 per 100. Second size 40 cents per dozen, \$2.25 per 100. If wanted by mail, add one cent each for first size and half cent for second size.

M. CRAWFORD.

VARIETIES.

The following quotation from an address delivered before a horticultural society by Mr. F. E. Goodrich of Illinois, forms an excellent introduction to this subject :

"After much thought I have come to the conclusion that the question of varieties is the most important one before the American fruit growers to-day. Let us deal justly with our patrons, and plant such varieties as will be a satisfaction to them and a profit to us."

The M. Crawford Company offers a large list of strawberry plants this spring, comprising new introductions, popular early, medium and late varieties, and many others which are enquired after, and which we have grown in small quantities for the benefit of amateurs who take pleasure in making collections for comparison. Most of these last are offered only by the dozen.

OUR THREE NEW BERRIES.

While we have introduced many strawberries that have become favorites, it has not been our way to make extravagant claims for them.

Evidently our customers have had faith in our statements, and in most cases the outcome has proved that our judgment was correct, and their faith well founded. Years ago we used engravings to some extent, but gave it up because so many enlarged and misleading pictures were presented to the public,—the same exaggerated cut often doing duty for several new introductions at different times. You who are familiar with the strawberry know that it has small seeds, and when these are magnified in a picture, the berry must be correspondingly magnified. An engraving of a section of an apple, representing it to be eight or ten inches in diameter, with seeds as large as those of a watermelon, would be pronounced absurd, and pictures of strawberries with seeds half the size of a grain of wheat are equally so. We may sometime resume the use of cuts, and if we do, they will be, as they were in time past, the exact size of the fruits which they represent.

We are constantly trying new seedlings from all parts of the country, and when we find one that we consider worthy, we arrange, if possible, to offer it to our customers. We brought out two, the Nimrod and Victor, last fall, and now add a third, the Mrs. Miller, to the list. These three berries were originated by men who are old in the business, John F. Beaver of Dayton, O., and D. J. Miller of Millersburg, O.

Mr. Beaver is undoubtedly the most successful amateur strawberry grower in the state, and has been for many years. He cultivates berries simply as a pastime, and probably never sold a quart of fruit nor a plant in his life. His surplus berries go to the sick in the hospital, and to his friends. He is the originator of the Nick Ohmer, Kittie Rice, Margaret, Beaver, and Nimrod.

Mr. Miller is a commercial fruit grower, and a successful originator of new fruits. He knows as well as any grower in the state what constitutes a good market berry. He originated the Miller, Victor, and Mrs. Miller. The Miller has been in the market several years, and has made a good record. We believe that the Victor and Mrs. Miller will do the same.

Nimrod (**Perfect.**) Before this was named it was exhibited as No. 84, and was called Nimrod because Mr. Beaver, although between seventy-five and eighty years of age, is a noted hunter, and one of the best rifle shots in the United States. At the great contests near Dayton he has repeatedly captured the first prize, a silver cup. The Nimrod is the most beautiful berry in our collection. The fruit is large, roundish conical, of regular form and smooth, glossy surface, bril-

liant red, firm, and second to none but the Beaver in flavor. The plant is of medium size and healthy, with thick, substantial foliage, which was entirely free from rust last season when so many varieties were affected. It is a good bearer. Season medium.

Victor (Perfect.) The plant of this variety is of the tough, healthy kind, like Senator Dunlap, able to rough it, and productive under any method of culture. The foliage is large, dark green, and handsome. The fruit is very large, roundish conical, but occasionally corrugated, dark, glossy red, with red flesh, firm, and of excellent flavor. It is a great berry for market or home use, and fine for canning. Season medium to late.

Mrs. Miller (Imperfect.) After the fruiting season of last year the originator of this variety, Mr. Miller, reported as follows:

"Mrs. Miller has made a good show the past season. It lasted ten days longer than any other berry on my place. It showed the most productiveness of all. Fruit large, oblong; color dark red all through. Sold for extra high prices. A great yielder."

From our own notes we compile the following description, which agrees very well with Mr. Miller's:

The plant is large, vigorous, healthy, and productive, able to bring its whole crop to maturity. Fruit large to very large, of regular conical form, slightly flattened, dark, glossy red, and of excellent quality. Season medium to very late.

Our plan of giving the Beaver to our customers last year, one plant for every dollar received, seemed to please so well that we have decided to do the same with the Mrs. Miller this spring. Further notice of this offer will be found on page 16.

For the accommodation of experiment stations, and other buyers who desire more plants of the Mrs. Miller than their investments in other varieties call for, we have set a price upon it, so that all may be fully supplied. \$2.00 per dozen; \$10.00 per hundred.

RECENT INTRODUCTIONS.

With few exceptions our descriptions of the varieties offered in this class are quoted from the originators or introducers, as we are not familiar enough with the most of them to enable us to speak with authority. It is a good plan for growers to try in a small way those new sorts that seem best suited to their needs. By so doing they may find something better adapted to their requirements than any which they have heretofore grown.

Arkansas Black (Perfect) "This magnificent berry is without a fault, has a perfect blossom, and is free from rust and all disease. Foliage protects blossoms, and fruit stems are long enough for easy picking. Plants are deep-rooted enabling them to withstand drouth. They make very large crowns, which produce an immense crop of the most beautiful berries, large, very dark (almost black), with golden colored seeds.

"Berries are very even in size, all through the season,—one like another. Very beautiful; firm; red all the way through; solid; very rich; high quality; best flavor;—so rich and solid that one quart is worth two quarts of the soft and spongy varieties.

"Extra early, but will bear as large a crop as the best of the midseason varieties. On account of its earliness, very even size, beautiful color and very rich, high quality, it will become the great market and general purpose strawberry."—LOUIS HUBACH, Originator.

Commonwealth (Perfect.) Originated by Wm. H. Monroe, of Massachusetts, who says of it:

"Commonwealth is the outcome of a desire and an effort to produce a berry which would perceptibly lengthen the strawberry season. In the Commonwealth we have a berry that is as large as the largest, as productive as any of the largest, as fine flavored, as solid, and as dark colored as any. It is smooth, (similar to the Jucunda in shape,) and very juicy. It has a strong staminate blossom,

"It is *late*. On the 17th day of July, 1902, as good berries were picked as during its season; Marshall, Glen Mary and McKinley, side by side with it, being gone. The last berries were picked July 22d.

"The plant is a good strong grower, not so rank as the Marshall, hardy, shows no sign of rust, a fair plant maker, setting its plants at medium distance from the parent. The MASSACHUSETTS HORTICULTURAL SOCIETY, always ready to recognize special merit, awarded the Commonwealth first prize in competition, July 5, 1902, and July 11, 1903."

J. J. H. Gregory, the well-known seedsman says: "I saw the Commonwealth on the grounds of the originator, Mr. Wm. H. Monroe, and a grand sight it was. The berry is tremendously large (fourteen of those I picked filled a quart box). The berries are symmetrical in shape, and have a rich, glossy color. The flesh is dark red, nearly as dark as the Marshall. It is a great cropper, and appears to be hard fleshed enough to ship well. One of its most valuable characteristics is its lateness in maturing, for when I was there, July 2d, the large bed which had bushels of growing fruit had to be searched over very carefully to find a quart of ripe berries."

C. S. Pratt says: "It is a week later than the Sample, and a better berry. It will be sold as the Marshall, and nine-tenths of the people will not know the difference."

This berry was introduced in 1903, but the demand for plants was so great in 1904 that our supply was nearly exhausted before the planting season was well begun. We have a small stock of our own growing, and will sell only by the dozen and hundred.

Mead (**Perfect.**) "Originated with H. O. Mead, ex-president of the Massachusetts Fruit Growers' Association, and is the one and only variety selected out of many, many thousands produced in thirty years of seedling strawberry growing."—J. H. HALE.

"It is a good, thrifty grower, with healthy foliage, perfect blossom, and fruit as near perfection in form as any I ever saw. Flesh reddish, and solid, and to my taste one of the best in quality. It is a heavy cropper of good sized berries, which hold their size well till the close of the season. It colors evenly, with no white tips, does well on all kinds of land, and will make a good showing on very light soil."—ORIGINATOR.

As there is nothing said about its time of ripening, it is fair to assume that it is medium.

Morning Star (**Perfect.**) Originated in Virginia, and comes highly recommended. The introducer says of it:

"At last we have in the Morning Star what has so long been wanted; a very early variety, producing in great abundance, very large and beautiful berries of the highest quality. In addition to being ten days earlier than any other variety producing large berries, the Morning Star is of the very largest size, rich, beautiful, crimson color, of the very highest quality and firm texture. The plant is a superb grower, with large dark green, healthy foliage, and wonderfully prolific."

Our stock is small, and we offer it by the dozen only.

President (**Imperfect.**) We have great faith in this variety, as it has been so well recommended by competent and disinterested parties. We fruited it in a small way last summer, and it appeared to be all that was claimed for it except in the matter of productiveness, and we suppose it is all right in this respect in an ordinary season. It bears a long time, and is counted late. The originator, Thomas R. Hunt, of New Jersey, says:

"It averages larger than Nick Ohmer, Bubach, or Sharpless, and is absolutely uniform in shape, the berries being almost round, and free from unripened or gnarled ends. The flesh is firm and solid, without hollow or pithy cores. The color is a rich crimson. It is very prolific, and brings the last berry to perfection."

Ryckman (**Perfect.**) Our July Report says that this variety makes good plants, and was only very slightly affected by the rust, but we had too few plants to enable us to judge fairly of its merits. It was awarded the highest prize at the Buffalo Exposition in 1901. It is classed as an early berry. Mr. S. S. Crissey, horticultural editor of the Grape Belt, says of it:

"The plant is a remarkably strong grower, has a large leaf, the berries are held up well from the ground, it is entirely free from rust, and is in every respect first-class as to plant vigor."

"It is in the front rank of the strictly big berries, right alongside such varieties as Marshall and New York. It is, however, a week earlier than the last named."

"It has a beautiful light red color, and colors up all over, without the fault of the white tip common to some varieties. It is of conical shape, and delicious flavor."

Velvet (**Imperfect.**) Originated by Mr. R. C. Cronk of Wisconsin, and probably a berry of unusual merit, for some of Mr. Cronk's neighbors paid a dollar apiece for plants. It was regularly introduced a year ago by Flansburgh & Peirson, who speak of it as follows:

"We believe it is a prize; of all the new varieties the most fitting and worthy to head our list. The plants are of good size, with dark green foliage, clean and healthy, making a good row for fruiting. The berries are large and fine, and produced in great abundance. We are expecting it to outrank the Sample,—one of the most popular, and which it much resembles. Season medium to late."

EARLY.

August Luther (**Perfect.**) This is a good early sort, and may be planted with confidence. It and the Johnson's Early furnish berries that are very welcome until the Senator Dunlap ripens, and then they are apt to be left unpicked. If we had no other varieties, these would supply good medium sized berries throughout the season. The plants are healthy and vigorous, and at least fairly productive. The fruit of the August Luther is of good size at first, but soon runs down to medium. Form rather oblong, often necked, of good color and fair quality.

Barton's Eclipse (**Imperfect.**) This is one of the old reliable market varieties, and succeeds everywhere. It is enormously productive, and the fruit is very large and handsome.

Climax (**Perfect.**) Originated by C. Graham of Maryland, from seed of Bubach fertilized by Hoffman's Early. It is one of the earliest, besides being very large. All who have seen it agree that it is a very luxuriant grower, and enormously productive. The plant is so healthy and vigorous that it ripens the last berry, and it has a long season. This is why it can produce such crops. We append two testimonials:

"A great plant maker, with perfect blossoms, three to six strong fruit stalks to a plant, and each of these perfects a large number of superb berries, of size as great as Bubach, as uniform as Gandy, and ripening extremely early, along with Hoffman and Michel."—J. H. HALE.

"I did not see a single misshaped berry, and every blossom made a berry. I never saw such a sight. The fruit is firm, of good flavor, good medium red color, in fact all any one could desire. It was growing on sandy soil fertilized with phosphate, 200 pounds on about one-quarter of an acre, no other manure."

Early Beauty (**Perfect.**) Our notes show that this was the first berry to ripen on our grounds last June. Fair plant, slender fruit stem, fairly productive. Berries round, smooth, fair size, fine to look at, very red through to center, very sour. This agrees with the Experiment Station report, which says that the Early Beauty is very similar to the Excelsior, if not identical with it.

Early Hathaway (**Perfect.**) From Arkansas. A seedling of the Wilson crossed with the Hoffman. Not fruited here, but described as follows:

"A vigorous grower, with large, dark green leaves, and an immense bearer. Fruit as large and firm as Gandy, of a bright red color, and among the earliest. A fancy berry that brings high prices in any market."

Ernie (**Perfect.**) Originated by Dr. Maudlin of Michigan, and described as follows:

"Plants are medium in size, and upright in growth, with dark green foliage, and stiff fruit stems, holding the fruit well up from the ground. Perfectly healthy, very productive, and a good plant maker. A good fertilizer for Crescent or Warfield; a little earlier than the Crescent, and holds out later. It holds its size well to the last picking. The berries are all smooth and uniform in size and shape. It has rather a tough skin and firm texture, which makes it a leader for long distance shipping and canning purposes. Fruit large, dark red, and glossy, of fine shape and good quality."

Fairfield (Perfect.) Another year's experience leads us to think that this is really a very valuable early sort. At our Ohio Experiment Station, where there were 160 varieties, well grown and carefully mulched, it was the most productive of all the early kinds. It is a money maker, although a little rough. The originator says:

"I have never seen any berry nearly its equal for earliness, large size, productiveness, color, quality, and firmness. I believe it will average about twice the size and double the quarts that Michel's Early will, aside from being from three to five days earlier."

Ham (Perfect.) A seedling of the Mary crossed with Parker Earle. The Rural New-Yorker says of it:

"Vigorous, with broad, very dark foliage, productive in a high degree of large, long berries, very dark in color, smooth and solid, flesh deep red, excellent quality. Appearance and quality better than Marshall as grown here, and much more productive. Early, but keeps up well throughout the entire season. An excellent table and home berry."

Haverland (Imperfect.) This is one of the most reliable of all, and so well known that it scarcely needs to be described. The plant is a healthy, vigorous grower, and succeeds anywhere. The fruit is large, long conical, bright red, not very firm, and of only fair quality. Its enormous productiveness and bright red color have made it a great berry for profit. Our stock is rather limited.

Heflin (Perfect.) This variety has made a sensation in the large eastern cities, where it has appeared among the earliest berries shipped from the south. We were advised to look it up, and did so, procuring plants from the Continental Plant Co., of North Carolina, who say many good things of it. We select the following:

"This great berry is really a revelation in berry growing. * * * Even its shape, slightly flattened and slightly square, adds greatly to its taking effect in the market, in that it enables the huge berries to be packed evenly in the cups.

"We never saw a plant grow better on all soils. Every gardener who wishes the best in the strawberry line, will sooner or later plant Heflin."

They also speak at length of its fine color. We give below an extract from a letter received last September from Mr. J. R. Greenhalge of Missouri:

"You say in your circular that you have never seen a big, early strawberry that was of good quality, and productive. Have you ever tried the Heflin from North Carolina? It comes nearer filling the bill for an early berry than anything else I have ever had. At first I thought it only fairly productive, but the size of the berries and the length of their season made up. What they would do in a drouthy season remains to be seen hereafter, but they were fine through the deluge of last spring."

Johnson's Early (Perfect.) This is spoken of in connection with the August Luther, and we consider it a desirable early berry for either market or home use. The plant is an excellent grower, as healthy as can be, and quite productive. The fruit is of good size, form, and color, and above medium in quality.

Lady Thompson (Perfect.) One of the standard early varieties of the south. Not so popular in the north.

Livingston (Perfect.) We are not acquainted with this berry, and have not learned the name of the introducer, but he gives a very interesting description, from which we make the following selections:

"A seedling of the Warfield pollenized by Jessie. It is a vigorous, healthy plant, with very thick, leathery, dark green leaves. It forms splendid crowns, and roots very deep. The berries are a beautiful scarlet. The shape is similar to the Warfield, but more full at the point. In size it equals the best specimens of the Jessie. Its quality is the very best."

Olive's Pride (Perfect.) Plant of fair size, healthy, a vigorous grower, and quite productive, fruit roundish, and of good size. Flesh firm, and of good quality. We add some points not covered by our notes, selected from the originator's description:

"Berry large, and holds its size all through the season. No green tips nor coxcomb berries. Beautiful deep red flesh all through, and holds its color. It ripens its whole crop in a short time. It is earlier than Crescent and later than Michel, but its crop will be picked before the Michels are gone because it ripens its whole crop in such a short time. The last shipment of Olive's Pride went in the same car with the first shipment of Gandy."

Springdale (Perfect.) One of our best early berries, especially for home use or a near market. The plant is healthy, vigorous, and very productive. The fruit is medium to large, round, and of good quality, but not very firm. It is especially welcome because it comes early and yields so many ripe berries at once. It matures its whole crop in a very short time.

Stahelin (Imperfect.) We quote again the report of the New York Experiment Station sent out in 1898, which fits the variety as it behaves here:

"Blossoms with Beder Wood. Plants vigorous, and good plant makers. Fruit stem long and erect. Fruit medium or above, roundish conical, good scarlet color, moderately firm, quality good. Ranks second in productiveness among all the varieties fruited on the station grounds in 1898, and first in the amount of early fruit produced."

Staples (Perfect.) Originated at Dayton, O., ten years ago, or more. It is of the Warfield class, and is a good fertilizer for that variety. It is a good grower and bearer, and far above the average in quality. Its color is extremely dark throughout, and a single quart of its berries mixed with half a peck of others will produce a beautiful rich color for strawberry jam.

Success It appears from correspondence with Mr. Frank Moffitt of Carmel, Ind., that two varieties have been sent out under this name. For this reason we do not offer it this year.

Texas (Perfect.) We can not do better than use last year's description. We think this is a valuable variety. The plant is of good size, vigorous and healthy, and makes runners sufficient, but not so many as most early varieties. It bore a good many berries in the fall in 1902 and again in 1903. Fruit of fair size, red, with red flesh, quite firm and of good quality.

Warfield (Imperfect.) This is one of the well known money makers. The plant is of only medium size, but makes many runners, and should be restricted. It is usually planted too close. The fruit is of medium size, long, often necked, dark glossy red, firm, rather tart, and a favorite for canning.

MEDIUM EARLY.

Ben Davis (Perfect.) This did well with us last season, but in a small way, as we sold the most of our plants. It is described as "Very large, round to oblong, never misshapen, dark red, very high flavored, and a firm, good shipper. The plant is a great plant maker, very healthy, very productive, and one of the largest.

Challenge (Perfect.) When at its best this berry is remarkable for its size and productiveness. We have seen it in perfection on both light and heavy soils, but it has failed sometimes. The plant is large, healthy, and vigorous. Fruit very large, beautiful in color, and of good quality. One of the best for dry weather.

Mr. S. E. Mason of Wisconsin, wrote last July as follows: "Challenge: Wonderfully productive of large flat berries of good quality; berries literally pile up around the plant. Unfortunately the plant is weak."

Howard's 2 (Imperfect.) Ten years ago this was selected with eight others from a bed of about 1000 choice seedlings then fruited for the first time by the late G. W. Howard of Michigan, who was a man of excellent

judgment and perfect honesty, hence his estimates were of value. The berry was not introduced until after the death of the originator, but his son, Mr. Edgar Howard, describes it as a heavy yielder and an excellent shipper. The plant is medium in size, of the Warfield type. The fruit is rather larger than Warfield, and nearly as dark in color, with light red flesh. In form it is short conical. It keeps well after ripening. Last summer the foliage was affected by blight, but this may have been due to the peculiar and trying season, as the variety had been a success on the Howard farm for nine years. Its yield was remarkably large at the Experiment Station last summer.

Lloyd (*Imperfect.*) Also called Seaford. Old and well known. We speak of it from last year's catalogue. "This has been a very profitable variety on account of its size, beauty and season of ripening. It comes into the market soon after the very early varieties, and its fine appearance insures a ready sale at the highest price. The plant is healthy, vigorous and productive. The fruit is large, of regular conical form, very dark red, firm, and of good quality. It bears a long time."

Sutherland (*Imperfect.*) Our last year's catalogue says of this, it is a satisfactory grower, with dark green, healthy foliage. It makes plenty of runners, and is as productive as the Sample, which is saying a good deal. It holds out in size to the end of the season, and the berries will keep for days after they are ripe. Size large, roundish, bright red to center, firm and of fair quality.

The Experiment Station bulletin says: "A comparatively new variety, and one of promise to the home or market grower."

Tennessee Prolific (*Perfect.*) One of the old reliable varieties. It succeeds in all localities, and does well even under neglect. "A staminate Crescent."

MEDIUM.

Beaver (*Perfect.*) This is the berry which we gave to our customers as a premium last spring, and we hope and expect to receive some good reports of it after next June. Another year's experience confirms our high opinion of it. The plant is of fair size, healthy, a good grower, and sends out plenty of runners. It yields a good crop of large, roundish conical berries, bright red, shining, and beautiful. It is the standard of excellence for quality.

Bisel (*Imperfect.*) This is another of the good old reliable sorts. Years ago it was considered one of the best, but newer varieties have taken the precedence of late. We had some enquiries for it last year.

Bubach (*Imperfect.*) A description of this old and well known sort is superfluous. It still retains its place as one of the desirable and reliable large berries.

Jessie (*Perfect.*) Originated more than twenty years ago, by the late F.W. Loudon of Wisconsin, who did much valuable work for the advancement of horticulture. Before the Jessie was introduced, Mr. Loudon wrote that he had grown it at the rate of 600 bushels to the acre, *on fall set plants*. It has not succeeded everywhere, but when at its best it is a wonder for size and productiveness.

Kittie Rice (*Imperfect.*) This is a beautiful berry, and one of the most popular. It is one of Mr. Beaver's seedlings, and has made an excellent record nearly every where that it has been tried. It is good for market,

for home use, or for exhibition. The fruit is large, roundish conical, dark red, glossy and very handsome. The flesh is red and firm. The plant is very productive, and as a rule a good grower. It needs winter protection. Last spring we were obliged to disappoint many customers who ordered this variety, but our present stock we think will supply all demands,

Louis Hubach (*Imperfect.*) A seedling of the Warfield crossed with the Lady Thompson. Remarkably vigorous, and one of the best to withstand drouth. It is a great plant maker and very productive. The fruit is large, dark red, somewhat rough, and will bear shipping to a distant market.

'Flesh red, firm, acid, but good.'—Experiment Station.

Lucas (*Perfect.*) This fruited with us last season, in a small way. Very few varieties were at their best last year, and probably this was not, but it bore a fair crop of large berries, roundish conical in shape, and dark red all through. It makes splendid plants, and we see no reason why it should not, in an ordinary season, fulfill the promise with which it was sent out.

Miller (*Perfect.*) From last year's catalogue. "We now regard this as one of the very best of the standard varieties. The plant is large, stocky, healthy and productive. It sends out plenty of strong runners. Fruit, very large, roundish conical, quite uniform in shape and size, bright red on the surface, paler at the center, and of fine flavor.

"Too much has not been said of the Miller, and I place it at the head of my list, Sample coming next. With the Miller, at our State Exhibition. I was awarded second premium for best four quarts, any variety, *first* premium for best new variety, and *first* premium for best variety for home use, garden cultivation."

A. W. CLARK, Providence, R. I.

Minute Man (*Imperfect.*) This is from the east, where it has made a good record. With us it is a good grower, and while the plants are not large, they are strong, and bear a heavy crop. The fruit is of good size and regular conical form, bright red with red flesh, not so firm as some. In quality it is good;—better than we gave it credit for last year.

Missouri (*Perfect.*) We received this variety from Missouri two years ago, and it made a good growth here, running freely and producing large plants. Last season it did equally well. The plants were healthy and productive, and the berries large, dark red and firm. These were the claims of the originator when it was sent out, and he added, "You will make no mistake in planting this berry."

Oom Paul (*Perfect.*) Large healthy plant, makes a moderate number of runners, and is a prolific bearer. The fruit is large, even to the end of the season, rather long, flattened, ribbed, irregular, color red, very dark, and red throughout when fully ripe. The flesh is quite firm and of good quality. This variety produced a good crop in the fall of 1903. The report from the Station at Wooster says:

"A fine large berry of good quality, and worthy of a careful trial for home or market."

Parsons' Beauty (*Perfect.*) From last year's catalogue: "From the standpoint of the commercial grower this comes very near to being a perfect variety. It is a healthy, luxuriant grower, makes plenty of runners and is an abundant bearer. The fruit is large of regular conical form, never misshapen, very uniform in shape and size, bright red, firm and very attractive. It holds out in size better than most varieties. In fact it is superior in every way except that it is a little tart—just right for canning."

Pocomoke (**Perfect.**) While this resembles Parsons' Beauty so closely that the same description will serve very well for both, they are distinct varieties, and both fine for market. The Experiment Station bulletin says of Parsons' Beauty. "Pretty generally considered to be a safe, dependable variety for market growers; also, it is a good berry for canning;" and of Pocomoke "One of our most prolific varieties. A little dull in color, but a truly 'business berry' for all that. Holds its size well throughout the season."

Pride of Cumberland (**Perfect.**) W. F. Allen says, "Like Gandy this berry will carry from Florida to Boston, and arrive fresh and firm. It is brilliant red in color, and holds its luster and freshness. The fruit is equal to Gandy in every respect. It thrives on any soil, but owing to its immense crop, better results are obtained by putting it on rich, springy land."

Ridgeway (**Perfect.**) From last year's catalogue. "We have had this ever since its introduction, and consider it a safe variety to plant. The plant is of medium size, a good grower and bearer. The fruit is large, roundish, smooth, dark red and of good quality. It has succeeded well in nearly all parts of the country."

Senator Dunlap (**Perfect.**) Just as the Warfield superseded the Crescent, so this supersedes the Warfield. It sends out many runners, and should have plenty of room. The plant is perfectly healthy and an enormous bearer. It commences to ripen soon after the earliest, and continues until near the close of the season. The fruit is large, but not the largest, and conical in form. The color is a deep, rich red, the flesh is also red, and has a sprightly, delicious flavor.

The Experiment Station bulletin says, "Senator Dunlap is one of the very best 'all around' berries of the present day. Equally good for home or market."

We have scarcely ever succeeded in growing enough plants of this variety to supply the demand, and last year fell far short, although our stock was the largest that it had ever been. We can scarcely hope that our present supply will be sufficient for our spring trade.

Splendid (**Perfect.**) We had this years ago, and found it very satisfactory. It is still a favorite where it is well known. Where a single variety is wanted for home use, we can recommend the Splendid. It flourishes anywhere, and produces a great quantity of medium sized berries, round, bright scarlet, firm, and excellent for canning.

Yant (**Perfect.**) Another year's experience only serves to strengthen our good opinion of this variety. We give the description from last year's catalogue.

"From the standpoint of the fruit grower this is a model of growth and productiveness. It makes large plants, sends out a moderate number of short runners, making a fine fruiting row that is always green and thrifty looking. The fruit is of large size, regular long conical form, and produced in abundance. In fact it is much like the Bubach in its style of growth, and ripens at the same time."

A customer in Nebraska says of it: "Fine berry, excellent flavor, shape and color fine, even canned."

MEDIUM LATE.

Armstrong (**Perfect.**) Said to have been brought from Germany ten years ago. It has not fruited with us. Mr. Wood of Rochester, N. Y., says it is the largest and most productive berry known; and he has seen crates of it with but ten or twelve berries to the quart box. They sold for more than twice as much as ordinary berries.

Granville (*Perfect.*) Our last year's description of this still holds good. Large healthy plant with plenty of runners. Fruit large, long conical, uniform; dark glossy red, with red flesh of excellent quality, and firm. "A fine and popular canning berry," says the Station bulletin.

Lyon (*Imperfect.*) This did well at the Experiment Station last summer, and we copy the report given in the bulletin:

"Medium, long conical, pointed, sometimes wedge-shaped; color, dark red. Flesh red, and moderately firm; quality good. Plants rather slender in growth, but vigorous, healthy and strong.

"It is almost with hesitation that we say just what we think of the Lyon without giving what might seem undue praise. The first berries of this variety to ripen were strikingly beautiful, attractive, and distinct in form. This, of course, was not surprising; but when picking after picking yielded fruit of equal size, beauty, and uniformity, the real merit of the variety, as judged by this season's test, became more and more apparent. The yield was very large."

Perfection (*Perfect.*) This variety makes a tall plant and sends out large numbers of strong runners. It was not at its best with us last summer and for this reason we reprint the introducer's description:

"Very rich in pollen, medium early to late, berry crimson red, very large, conical, firm, good shipper, resists drouth remarkably well, plant healthy, large, free from rust, foliage light green, good plant maker."

Reba (*Imperfect.*) We have not fruited this variety. The description given is from the originator:

"A seedling of the Bubach and Charles Downing, crossed by Gandy. The size and immense productiveness of this berry will particularly please the market gardener, and the color and quality are all that could be desired for home use.

"Plant, vigorous, hardy, and long-lived. One of the most productive varieties that we have ever fruited. Fruit large to very large, bright red, firm and of good quality."

Uncle Sam (*Perfect.*) The following description is taken from the catalogue of J. T. Lovett:

"Alongside of twenty-two of the best standard varieties, the Uncle Sam excelled all; and this happened not in one solitary case, but for a period of several years. The trustworthy grower who made this report is not the originator or introducer, and is entirely disinterested. What he says, others have confirmed. It is certainly a remarkable berry and has an exceedingly promising future. The berries are large to very large, bright red, firm, and of delicious quality. Plant strong and vigorous, with tough, bright foliage, a great bearer, and of long season. It has ripened as early as May 22d, and on July 5th of the same year berries were picked one and a half inches in diameter."

Several other catalogues speak very highly of the Uncle Sam.

Woolverton (*Perfect.*) This was originated by the late Mr. John Little of Canada, and introduced many years ago by M. Crawford. It has always ranked high among the large berries, and there is little danger of its being overpraised. Our last year's description, which we append, gives a fair idea of its merits.

"It makes a large, vigorous plant that sends out plenty of strong runners and produces a good crop of very large berries. It is a favorite pollenizer, as it remains in bloom over a month. It succeeds over a wide area, and is a surprise to both growers and consumers on account of its great size. It bears a long time. The fruit is generally conical, but is occasionally irregular in form, sometimes uneven. It is bright red, but sometimes ripens unevenly. The berries are so large and so numerous that one could throw away every imperfect specimen and still have a great crop of fine berries. It is firm and good.

L A T E.

Bennett (*Imperfect.*) This is classed among the late varieties because it bears a long time, sometimes for five weeks, but it ripens the first berries with the Warfield. The fruit is short conical, with a smooth, regular surface. The color is "the best there is,"—bright scarlet when first ripe, and darker if left four or five days. It is firm and of good quality. A desirable berry for any purpose.

Brandywine (Perfect.) This is grown in all parts of the country, and is almost too well known to need description. The plant is of good size, makes plenty of runners, and is generally healthy and productive. The fruit is large heart-shaped, firm, and of good quality and color. A large part of its crop comes late. It is a safe variety to plant.

Carrie Silvers (Imperfect.) We are not acquainted with this berry, but the following is the originator's description:

"This variety was the result of crossing with Sharpless a seedling of Warfield fertilized by Parker Earle. Plant and foliage strong, vigorous, and healthy; enormously productive; berry large, bright red, good quality and firm."

The Rural New-Yorker speaks highly of it, as follows: "We regard it as in all respects better than Haverland, the flesh firmer, the color brighter, and the size larger."

Empress (Perfect.) Originated by the late John Little of Canada. Plant large healthy, vigorous, and productive. Fruit very large, conical, sometimes corrugated, dark red, glossy, and very good. From medium to very late.

Enhance (Perfect.) This variety originated in central Ohio, and succeeds everywhere. It is a profitable market berry in the regular season, and is also quite likely to bear again in the fall.

The following, from Mr. S. E. Mason of Wisconsin, will be found interesting: "The Enhance is rough, homely, white-tipped, and of poor quality for the first few pickings, but its good size, great productiveness, splendid shipping qualities, and great length of season make it of great value here. Also, this year especially, the latter half of the season its quality as a table berry was splendid. Its market season extended from June 23d to July 26th,—twenty quarts on last date—which is a record here."

Gandy (Perfect.) From last year's catalogue. "This has been the standard late variety for many years. It generally bears more the second year than the first. Its central leaves are usually curled in the growing season, which gives the plant a bad appearance. It is fairly productive. The fruit is very large and beautiful in form and color, and of excellent quality. Not a success on dry soil."

Joe (Perfect.) We quote the report from the Experiment Station, which is similar to our last year's description:

"Large, short conical, sometimes slightly ribbed, but frequently almost spherical, usually very smooth and regular; color, rich, bright crimson. Flesh red throughout, quite firm, and of good quality. Plants clean, vigorous, and strong."

"One of the good late sorts, but does not ripen the bulk of its crop as late as Latest or Nettie."

Klondike (Perfect.) This is a good late variety, and quite well known. The plant is of only moderate size, but is a good grower and bearer. Like the Gandy it produces some pistillate blossoms early in the season. The fruit is large, obtusely conical, smooth, red, firm, and of good quality.

Latest (Imperfect.) Originated by S. H. Warren of Massachusetts, one of the most successful growers in New England. It has fruited here twice, and is one of our best late kinds. The following is from the Ohio Experiment Station bulletin:

"Very large, rather long, bluntly conical, sometimes flattened; color dark crimson with mottlings of a lighter color,—very beautiful. Flesh red, (very light) only moderately firm; quality good. Plant healthy, vigorous."

"The Latest was one of the most beautiful berries of its season, which is fully as late as that of Gandy, the quality being much better. It is a variety well worthy of a trial, and promises to be equally good for home use or not too distant market. Its attractiveness on the market stand will catch the eye, and command an exchange of dollars for berries."

The following is from one of our careful and successful Summit county growers. Mr. Lev; Falor: "When the Senator Dunlap begins to ripen on the 13th of June, the Latest begins to blossom, the first berries being ripe on the eighth of July. It lasts till the end of the month. Foliage dark green the entire summer, and an abundance of fine, large, firm berries."

Lester Lovett (Perfect.) Introduced by J. T. Lovett, and so exact a reproduction of the Gandy that the most critical judges can see no difference. Mr. Lovett says they resemble each other so closely that it is not worth while to grow both.

Marie (Imperfect.) A seedling of the Crescent fertilized with Cumberland. The plant is perfectly healthy with us, has good habits of growth, and is among the most productive. The fruit is very large, round, red, very attractive, and of good quality. We have had a good opinion of this berry from the first, and the Station report says that it may be planted with confidence.

Nettie (Imperfect.) We fruited this variety several years ago, and discarded it on account of its light color and ordinary quality, although it was *very* late, and among the most productive. Just before our bed was plowed under, a market gardener secured a lot of the plants, and has grown the variety ever since with profit. The fruit is of great size, but still too light in color, and only moderately firm. The Station report says that it was superior to Gandy,—which was not at its best,—in quality last year, and adds, “The very best late variety at the Station this season.”

Ninety-Six (Perfect.) This, like Howard's 2, was grown from seed by the late G. W. Howard. Our July report speaks of it as a good bearer of large berries, ordinarily round, but sometimes irregular in form, or double. The color is red, deep and glossy, and the flesh is red, juicy, and of medium quality. Mr. Edgar Howard states that it has a large, strong, healthy plant, is more productive than Gandy, and the fruit is much larger.

Prof. Fisher (Perfect.) The originator, Mr. Black, says that a seedling of Bubach fertilized with Sharpless was crossed with Brandywine, and in this third generation he found the Prof. Fisher and Mrs. Fisher, and they were pre-eminently superior to all the rest. The Rural New-Yorker describes it as follows:

“Late, coming in with Gandy. Vigorous plants, tall, broad foliage; berries large, sometimes coxcombed, smooth and firm, bright scarlet; quality fair. A great producer of fine showy berries.”

The Ohio Experiment Station bulletin says, “From this season's experience with the Prof. Fisher it is apparent that all the good things that have been said about this new variety by its originator and introducer, as well as by others who have grown it, are well justified by its sturdy behavior. It is very promising.”

Robinson (Perfect.) A seedling of the Crescent. R. D. McGeehon says it resembles its parent in hardiness, vigorous growth and foliage, but the fruit is larger. It ripens late, is bright red, firm, and of good quality.

Sample (Imperfect.) Our high estimate of this great berry remains unchanged.

“This is one of the very best pistillate kinds in cultivation. The plant is large and healthy, and makes lots of runners. No matter how close the plants stand to each other in the bed, every one will bear. The plant is well anchored by a great mass of roots, and is rarely heaved out. It is a great bearer of large, roundish berries, usually with a slight neck, dark red to the center, moderately firm, and of good quality. It ripens large berries to the close of the season.”

Stevens' Late Champion (Perfect.) This has not fruited here, but the variety seems to be at home on our place. We were pleased all the season to see its green, healthy appearance and its vigorous growth. It is certainly very promising. The following is the originator's description:

“Very large, fine flavored, bright color, good shipper, a fine bed maker, a heavy yielder, fine foliage, ranging from twelve to fourteen inches high, with a good fruit stem. This berry averaged 7,556 quarts per acre in 1902, netting \$666.96 per acre; selling as high as twenty-two cents per quart in New York markets last season. It has been tested on all kinds of soil, and will grow successfully where any strawberry will grow. It will stand a drouth better than any other berry ever grown in this section.”

“Its name, ‘Champion,’ was given it by a lot of berry growers, some saying it would challenge the world.”

“It ripens later than the Gandy Prize, and lasts until the Fourth of July any season. It has never shown any sign of rust. The cap, which is double, has always kept green until the last of the season.”

Uncle Jim (Perfect.) This is one of our best late berries. In habit of growth it resembles the Bubach,—making strong, healthy plants and not too many of them. It sends its roots to a good depth, and matures all of its fruit. The berry is large, long conical, scarlet, firm, and of good flavor. The Station report says:

“One of the best and most productive varieties of its class. Desirable and profitable as a home or market berry.”

Wonder (Perfect.) This makes a large, strong plant with broad leaves and heavy stems. It has the appearance of being only moderately productive, but the fruit is very large, and when measured in quarts it proves that the plant is a good bearer. The first berry on the stem is shapeless. The fruit is orange

scarlet in color, moderately firm, and of fair quality. It makes a long season, and while classed with the late berries it is also medium. It is sometimes called Sampsel, for its originator, or Sampsel's Wonder.

OTHERS.

We have a few varieties whose season of ripening we have been unable to find, and for this reason we could not classify them with certainty. It is probable though, that they are medium, for when a berry has any special claims to being early or late they are not likely to be overlooked in describing it.

Auto (*Perfect.*) This variety has made a good record here, and seems to be a favorite elsewhere. The plant is large and healthy, and a good bearer. The fruit is very large, roundish conical, fine looking, and of good quality.

Boston Prize (*Imperfect.*) We borrow the following description from the Continental Plant Co., of North Carolina.

"The plants are of the stoutest, stockiest kind, with a wealth of root growth that prepares them to bear the heaviest crop of fruit. The berries are well formed, well colored, and among the very largest. We shall plant heavily of it for our own use."

Brunette (*Perfect.*) Originated by Granville Cowing of Indiana, and noted for its fine quality. The fruit is of good size, dark, rich red to the center, and is produced in fair amount.

Bush Cluster (*Imperfect.*) A tall growing, vigorous, and very productive variety. The fruit is borne in great clusters, well up from the ground. It is large, firm, dark red, and of good quality.

Corsican (*Perfect.*) This has not fruited here, but it is described as a strong growing, productive variety, bearing large, showy berries. It is said to do well on beds four or five years old. Popular at Rochester, N. Y.

Duncan (*Perfect.*) This was introduced last year and sold so well that our stock was exhausted, and had to be replenished several times. The outcome left us but few to plant, and consequently our present stock is small. The plant is satisfactory every way, and the fruit is large, dark red, firm, and of fine flavor.

Echo (*Perfect.*) Introduced by Allen L. Wood, who says that it is very productive, and the fruit is large, with the flavor of the wild strawberry.

EVERBEARING.

Arizona (*Perfect.*) Our notes on this variety are very scant. It is reported as a good grower, with a plant that resembles August Luther. Ripens early. Fruit medium in size, and rather dark red.

Mexican (*Perfect.*) This variety was received from the Agricultural Department in the spring of 1902 under a Mexican name, and is a true everbearing variety, yielding fruit from June till November. The berries are medium in size, roundish conical, and not in any way remarkable. The plants are somewhat inclined to rust. We have never sold any, but customers who may want a few to experiment with, can have them for the asking.

SHOW BERRIES.

Margaret (*Perfect.*) This variety is from Mr. Beaver, and under high culture is one of the best berries ever sent out. Mr. E. C. Davis of Massachusetts has grown specimens over three inches long, and has had it in bearing thirty-five days in succession. The plant is of good size, a good bearer, a healthy grower, and makes enough runners. The fruit is very large, usually conical, sometimes long oval-shaped, dark glossy red, and of excellent quality. Although the Margaret makes a long season it may be classed as a late variety. It responds to a winter covering of manure as few others do.

Last year we ran short of plants and were obliged to disappoint some customers, but this spring we think we have enough for all.

Marshall (Perfect.) From our last year's catalogue. "Found wild in Massachusetts. It has taken more first premiums at the great Boston show than has any other variety since it appeared. It is strictly a fancy berry, and is best suited to skillful growers who give best culture. It is easily injured by a late frost. It has the name of being only moderately productive, but if measured in quarts it will compare favorably with most varieties. It generally matures all its berries and they are all picked, while some kinds start out to do more than they are able, and leave a large number of unripe berries at the close of the season. With good culture and protection from frost it is generally very satisfactory.

"The plant is very large and stocky, a fairly good grower, and usually healthy. The fruit is very large, roundish, very dark glossy red, very attractive in appearance, and of most excellent quality. It is scarcely ever misshapen, and never common or unattractive. It is early, but not the earliest."

Nick Ohmer (Perfect.) This is another of Mr. Beaver's seedlings, and when well grown is probably unsurpassed for great size and beauty combined. It is a vigorous grower, and makes plenty of runners, which however are slow to root unless assisted. The berries are red, dark and glossy, and of fine quality. The first one on the stem is apt to be corrugated, but all the others are of good form. This, like the Margaret, needs high culture. Its season is medium.

Wm. Belt (Perfect.) From our last year's catalogue. "Introduced by us about eleven years ago. We might describe it by saying that it has every good characteristic save one—it is rather subject to rust. Although its single failing is well known it is extensively planted by a large number for its many excellencies. We have seen it produce berries over nine inches in circumference in sixty days from the time it was transplanted. The plant is very large and sends out plenty of strong runners. It is very productive.

"The fruit is very large, and usually of regular roundish, conical form. Under high culture the first berry on the stem—the king berry—is quite apt to be combed, but all that follow are of beautiful form. The color is bright glossy red, and the flavor delicious. Season, medium.

TO OUR CUSTOMERS

Packing and Shipping We begin to ship plants as soon as we can dig them—usually about April first, sometimes a little earlier. We do not hold plants in cellars over winter. We do not ship plants by freight. We guarantee that all plants ordered sent by mail or express before May first to points in the United States shall reach their destination in safety. If any fail to do so, or if any mistake occurs, we stand ready to make good the loss or rectify the error, if notified promptly.

We can ship by express directly over the lines of the United States and Adams (and Southern) Express Companies. We have an excellent method of packing, which combines lightness with security, and thus renders transportation as inexpensive as possible.

Sending plants by mail has long been a specialty with us, and we have sent them with perfect success to every state and territory in this country, and most of the provinces of Canada.

Extent of Guarantee It is our custom to warrant our stock pure, and true to name, and it has never been otherwise, except in a few instances where we received mixed or spurious stock and did not find it out soon enough to withhold it from sale; but we will not hold ourselves liable for an amount greater than that actually paid us for the stock.

Terms Cash with order or before shipment. We vary from this rule in our dealings with Experiment Stations and other public institutions, which observe certain formalities in doing business; and sometimes in favor of old customers with whom our past dealings have been satisfactory to us.

Substituting When we are sold out of a variety ordered, we can frequently substitute others to the advantage of the purchaser, if permitted to do so. On orders received before May 1st we do not substitute unless given express permission to do so; on orders received after that date, however, we retain the right to substitute where necessary, unless expressly forbidden to do so. We advise those ordering after May 1st not to forbid substitution, as it is then so late that they stand a poor chance of being able to get the varieties they want elsewhere.

SOME OTHER FRUITS

The Blowers Blackberry We are so impressed with the value of this variety that in addition to our own stock, we purchased about all the plants that were obtainable in the fall. We want all our customers to try the Blowers, as it appears to be the first very large blackberry that is hardy. In August

1903, our M. Crawford went to New York to see it, and has never lost faith in it for a moment since. He saw it trained on a trellis ten feet high, and laden from top to bottom with black, red, and green berries, after others varieties were gone—a single bush yielded over 2600 berries. It continued to bear about two months. Last season it was the only large variety that bore fruit in that section. One-fourth of an acre yielded 2246 quarts, and the fruit sold in cities nearby at \$4.00 a bushel at wholesale amounting to \$280.75; or \$1123 per acre. The fruit is very large and beautiful. Mr. E. P. Powell, the well known horticulturist and writer, to whom Mr. Blowers sent a can of this variety, speaks of it as follows:

"Best I ever tasted. Seeds small, and comparative amount of pulp very large. The smaller the seeds and the larger the drupes, the better the berry. The flavor is very fine indeed. I am satisfied you have a nice thing."

The blackberry should be planted in the fall, or very early in the spring. It will be useless to order after April 15th, as we shall plant all that are unsold at that date.

By express, 10 cents each; \$1.00 per doz.; \$6.00 per 100. If ordered by mail, add one cent more for each plant.

The Kenoyer Blackberry This variety, which we offered last spring, has made a good record the past year. Our bushes were unprotected last winter, and appeared none the worse for the severe weather. Although our plants were but one year old, they produced a few fine looking berries, but the robins took them. All the plants we have to spare are sold, but we have a fine lot of root cuttings, and expect to have plenty of plants in the fall.

The Comet Currant We catalogued this variety last season, and sold nearly all the plants we had. We hoped to have a good stock for this season, but were partially disappointed, not being able to get our cuttings set early enough. Practically all the plants we have are engaged, but our cuttings—for this year's growth—are already in the ground, and we hope to have a fine stock in the fall. It is a very superior variety, the best we have ever seen in bearing. It is of the same general character as Fay or Versailles, but every bush is productive, which is not the case with them. Its flavor is excellent, and it hangs on the bushes in good condition for weeks after ripening. Last fall when making cuttings of the Comet we found ripe fruit early in October that still retained its freshness. Ordinary varieties look cheap beside this.

The Perfection Currant We offer now, for the first time, this new candidate for favor among currant lovers. It was introduced last year at \$1.00 per plant. We present a condensed description prepared by a committee of the Western New York Horticultural Society:

"Originated by C. G. Hooker, Rochester, N.Y.: Cross between Fay's Prolific and White Grape. Season of ripening same as Cherry and Fay. Color, bright red, a good grower. Size very large, larger than Fay or Cherry. Clusters very long. Very productive, resembling the White Grape in this respect. Quality very fine, not so acid as Fay and other red sorts. As a table currant cannot be surpassed. A very important fact is that it has a long stem from fruit to attachment to branch, making it easy to pick."

The Perfection received in 1901, the \$50 Barry gold medal of the Western New York Horticultural Society, and the highest award at the Buffalo Exposition; also, a gold medal at the World's Fair in St. Louis last year. Price, 50 cents per plant.

NOTICE

In the beginning of my investigation of the pedigree question, I received from Mr. Earle of *The National Fruit Grower*, St. Joseph, Mich., an uncomplimentary letter which was published in my report, and created in the minds of some who saw it a feeling adverse to the paper. I wish to say that since that time the paper has changed hands, and its present owners propose to hold its columns open to the discussion of all important issues connected with fruit growing, and to maintain the high standard of impartiality which should characterize a fruit growers' journal.

CERTIFICATE OF NURSERY INSPECTION

No. 69

COLUMBUS, OHIO, Aug. 1, 1904.

THIS IS TO CERTIFY that the growing nursery stock and premises of the M. CRAWFORD Co., situated near Cuyahoga Falls, Summit County, Ohio, have been inspected in accordance with the provisions of the Nursery and Orchard Inspection Law of the State of Ohio, and have been found apparently free from San Jose scale, black knot, peach yellows, or other dangerously injurious insects or plant diseases.

This certificate is void after September 15, 1905.

A. F. BURGESS, Chief Inspector.

PRICE LIST OF STRAWBERRIES

PLEASE PRESERVE A MEMORANDUM OF YOUR ORDER HERE

Date 1905. *Amount sent, \$*

To be shipped by *on or about*

These prices are by express, not prepaid.

When plants are ordered by mail, add 5 cents for each dozen; 10 cents for each 25; 30 cents for each 100.

Six plants of one variety at dozen rates; 50 plants of one variety at hundred rates; 500 plants of one variety at thousand rates.

Customers sometimes want 100 plants made up of four 25's, or 1000 made up of four 250's, and do not know what prices to affix. For this reason we have placed the prices of 25's and 250's in our list.

PISTILLATE VARIETIES (I.) MUST HAVE BISEXUAL VARIETIES (P.) NEAR THEM.

	12	25	100	250	1000		12	25	100	250	1000
Arizona P.....	.15					Lyon I.....	.15	.20	.60	1.10	3.50
Arkansas Black.....P.....	.25	.40	\$1.25	\$2.50		Margaret P.....	.15	.20	.60	1.10	3.50
Armstrong.....P.....	.15	.20	.60			Marie.....I.....	.15	.20	.60	1.10	3.50
August Luther.....P.....	.15	.20	.60	1.10		Marshall.....P.....	.15	.20	.60	1.10	3.50
Auto.....P.....	.15	.20	.60	1.10		Mead.....P.....	.25	.40	1.25	2.50	7.50
Barton's Eclipse.....I.....	.15	.20	.60			Miller.....P.....	.15	.20	.60	1.10	3.50
Beaver.....P.....	.25	.40	1.25	2.50		Minute Man.....I.....	.15	.20	.60	1.10	3.50
Den Davis.....P.....	.15	.20	.60			Missouri.....P.....	.15	.20	.60	1.10	3.50
Bennett.....I.....	.15	.20	.60	1.10	3.50	Mrs. Miller.....I.....	2.00	3.00			
Bisel.....I.....	.15	.20	.60	1.10	3.50	Morning Star.....P.....	.50				
Boston Prize.....I.....	.15	.20	.60	1.10	3.50	Nettie.....I.....	.25				
Brandywine.....P.....	.15	.20	.60	1.10	3.50	Nick Ohmer.....P.....	.15	.20	.60	1.10	3.50
Brunette.....P.....	.15	.20	.60	1.10		Nimrod.....P.....	1.00	1.50	5.00		
Bubach.....I.....	.15	.20	.60	1.10	3.50	Ninety-six.....P.....	.25	.40	1.25	2.50	7.50
Bush Cluster.....I.....	.25					Olive's Pride.....P.....	.15	.20	.60	1.10	3.50
Carrie Silvers.....I.....	.25					Oom Paul.....P.....	.15	.20	.60	1.10	3.50
Challenge.....P.....	.15	.20	.60			Parsons' Beauty.....P.....	.15	.20	.60	1.10	3.50
Climax.....P.....	.15	.20	.60	1.10	3.50	Perfection.....P.....	.15	.20	.60	1.10	3.50
Commonwealth.....P.....	.50	.75	2.50			Pocomoke.....P.....	.15	.20	.60	1.10	3.50
Corsican.....P.....	.15	.20				President.....I.....	.25	.40	1.25		
Duncan.....P.....	.15					Pride of Cumb.....I.....	.15				
Early Beauty.....P.....	.15	.20	.60	1.10		Prof. Fisher.....P.....	.25				
Early Hathaway.....P.....	.15	.20	.60	1.10		Reba.....I.....	.25				
Echo.....P.....	.15	.20	.60	1.10		Ridgeway.....P.....	.15	.20	.60	1.10	3.50
Empress.....P.....	.15	.20	.60			Robinson.....P.....	.15	.20			
Enhance.....P.....	.15	.20	.60			Ryckman.....P.....	.25	.40	1.25	2.50	7.50
Ernie.....P.....	.15	.20	.60	1.10		Sample.....I.....	.15	.20	.60	1.10	3.50
Fairfield.....P.....	.15	.20	.60	1.10	3.50	Senator Dunlap.....P.....	.15	.20	.60	1.20	4.00
Gandy.....P.....	.15	.20	.60	1.10	3.50	Splendid.....P.....	.15	.20	.60	1.10	3.50
Granville.....P.....	.15	.20	.60	1.10		Springdale.....P.....	.15	.20	.60	1.10	3.50
Ham.....P.....	.25					Stahelin.....I.....	.15	.20	.60	1.10	
Haverland.....I.....	.15	.20	.60	1.10	3.50	Staples.....P.....	.15				
Hefin.....P.....	.15	.20	.60	1.10	3.50	Stevens' Late Ch.....P.....	.15	.20	.60	1.10	3.50
Howard's 2.....I.....	.25	.40	1.25	2.50	7.50	Sutherland.....I.....	.15	.20	.60	1.10	3.50
Jessie.....P.....	.15					Tenn. Prolific.....P.....	.15	.20	.60	1.10	3.50
Joe.....P.....	.15	.20	.60	1.10		Texas.....P.....	.15	.20	.60	1.10	3.50
Johnson's Early.....P.....	.15	.20	.60	1.10	3.50	Uncle Jim.....P.....	.15	.20	.60	1.10	3.50
Kittie Rice.....I.....	.15	.20	.60	1.10	3.50	Uncle Sam.....I.....	.15	.20	.60	1.10	
Klondike.....P.....	.15	.20	.60	1.10	3.50	Velvet.....I.....	.50				
Lady Thompson.....P.....	.15					Victor.....I.....	1.00	1.50	5.00	12.50	
Latest.....I.....	.25	.40	1.25			Warfield.....I.....	.15	.20	.60	1.10	3.50
Lester Lovett.....P.....	.15	.20	.60			Wm. Belt.....P.....	.15	.20	.60	1.10	3.50
Livingston.....P.....	.15	.20	.60	1.10		Wonder.....P.....	.25	.40	1.25		
Lloyd.....I.....	.15	.20	.60	1.10	3.50	Woolverton.....P.....	.15	.20	.60	1.10	3.50
Louis Hubach.....I.....	.15	.20	.60	1.10	3.50	Yant.....P.....	.15	.20	.60	1.10	3.50
Lucas.....P.....	.15	.20	.60	1.10	3.50						

OUR PREMIUM OFFER FOR 1905

To every person sending us an order amounting to \$1.00 or more, accompanied by the cash,—or cash before shipment,—between now and May first, we will send free with the order, **one strong plant of the Mrs. Miller strawberry for each dollar received.**

DEVELOPING NEW SORTS == OF STRAWBERRIES ==

We ask every reader of this catalogue to consider carefully the following extract from Farmers' Bulletin No. 198, entitled "Strawberries," compiled by L. C. Corbett, the horticulturist of the Bureau of Plant Industry, Washington, D. C.:

"The factor of uncertainty and chance which goes with the propagation of plants for the purpose of securing new varieties makes this one of the most fascinating branches of horticultural work. During recent years this line of endeavor has become of such great moment that some men have given their whole time and attention to it. The increased importance attached to this work is not so much the result of a demand for new sorts, as for sorts carrying certain advantageous attributes. The knowledge that certain colors, flavors and types of fruit are in greater demand than others has created a sentiment in favor of breeding varieties possessing such peculiarities. A more important consideration than this is the fact that certain strains and varieties of plants are found to resist disease better than others, to be better fitted to withstand adverse climatic and soil conditions, and to be richer in certain elements—such as sugar, acid or oil—which may give an advantage over other sorts. The work of determining qualities which are of special advantage and of securing varieties which possess these characteristics in a marked degree has come to be the task of the variety maker.

"In the strawberry a very attractive subject for such efforts is presented. It is a plant which is readily propagated by seeds, which is, of course, the only means of securing new forms. The seeds may be selected from plants showing the desired tendencies, or they may be produced by crossing two plants possessing characteristics which it would be desirable to combine in one plant. In any event the seed is the medium through which variation in any direction is expected. But fortunately for the breeder, the strawberry is provided with a means of self-preservation through the agency of runners (stolons), which enables the propagator to perpetuate any plant he may develop without fear of loss or change of characters. This feature of the plant, which provides for direct vegetative reproduction, renders it unnecessary to attempt to fix the type in any strain or creation, as is the case with plants propagated exclusively with seeds. New varieties then are secured through seed propagation, while the desirable horticultural sorts thus secured are propagated by runners."

"Notice this sentence: 'It (the strawberry) is a plant which is readily propagated by seeds, which is, of course, *the only means of securing new forms.*' This is testimony from a disinterested witness, and is not in the interest of any scheme to mislead the public.

Notice also this sentence: 'But fortunately for the breeder the strawberry is provided with a means of self-preservation through the agency of runners (stolons), which enables the propagator to perpetuate any plant he may develop without fear of loss or change of characters.'

Thousands of dollars have been expended in the effort to convince people that strawberry plants propagated by runners in the ordinary way are in danger of lessening their potency, prepotency, fruiting vigor, fruiting capacity, or impairing their vascular system; but, *notice*, that none of this literature is sent out by the Agricultural Department or by any state experiment station.

Notice again that Mr. Corbett speaks of "breeder" and "propagator" in the same sentence as being of two classes, which they are; yet the growers of so-called "pedigree" plants style themselves plant breeders, although they may never have raised a variety from seed. Let us bear in mind that there can be no breeding without seed; nor can there be a pedigree without a list of ancestors.

NUBBINS.

Or imperfectly developed berries, may result from any one of the following causes:

1. A late frost may destroy a part, or even all of the pistils before fecundation takes place; or it may destroy a part of the seed soon after fecundation.
2. Long continued rain in the blooming period may wash away part of the pollen, or of the honey-like substance with which the stigma is coated when in a receptive condition, or it may prevent insects from carrying the pollen from flower to flower.
3. The amount of pollen furnished may be insufficient, as where too few perfect-flowering varieties are planted within reach of the pistillate kinds.
4. Sometimes the pistils, or a part of them are injured by insects before the flower comes into a receptive condition.

UNSOLICITED TESTIMONIALS

OF 1904

"Plants came to hand in the same old style, roots straightened out, and packing O.K.;—looked as if they were just dug. Thanks for extra plants."

J. E. RANDALL, Muskegon, Mich.

"The strawberry plants ordered from you reached here in fine condition. I thank you very much for the nice plants, good count, and extras."

MINNIE A. OWRAM, Toledo, Oregon.

"Plants received in fine shape. Thanks for good plants, good packing, big count and extras."

A. G. CAMPBELL, Sycamore, Ill.

"The plants were received in fine condition, the same as all plants we have ever received from you. Thanks for extra plants."

J. H. KIMBALL, Rehoboth, Mass.

"Strawberry plants have arrived. They are the nicest plants I ever saw."

JACOB WILLIS POOLE, Vancouver, Wash.

"The plants received yesterday in perfect condition. I can't thank you enough for the high class of plants you sent. They are the best I have ever bought, up to date. Whenever I am in need of any more plants, I shall know where to buy."

E. B. UNDERHILL, Poughkeepsie, N. Y.

"I received my plants, and to say I am very much pleased with them is putting it mildly. I wish to thank you very much for sending such nice plants and good count, also for your present of Beaver and Lucas."

JAMES HOWIE, Berea, O.

"All the plants were put up in the best possible manner, and came through fine."

A. W. CLARK, Providence, R. I.

"The strawberry plants came in excellent condition,—not even a leaf wilted after their long journey, which certainly speaks well for the packing."

MRS. GARDINER MILLS, Bruce, Wyoming.

"The strawberry plants ordered from you came in good condition, and were fine plants. I must return thanks for the extras."

M. B. MORTON, Russellville, Ky.

"Please accept many thanks for strawberry plants received from you in such good condition, and such an abundant supply, also for the valuable extra plants. I shall take great pleasure in recommending your establishment to friends."

MRS. M. D. TUTT, Kirkwood, Mo.

"Plants came one hour ago,—heeled in,—all fine. Accept very many thanks."

J. B. MYERS, Boise, Idaho.

"Got plants all right. Although they lay in the express office a week they were not hurt. Heeled them in and they are doing fine."

RICHARD ALBRIGHT, La Fayette, Ind.

"I received the strawberry plants May 10th. Thank you very much for sending such nice plants and for so many extra ones. I think every plant will grow."

MISS M. MCGLASHAN, Corunna, Ont.

"The plants arrived to-day and seem to be in nice condition. I have not checked them over yet. You have the neatest package it has ever been my pleasure to receive plants in, which largely accounts for the light express charges on this package."

G. S. CHRISTY, Johnson, Neb.

"The strawberry plants received from you last spring arrived in good condition, and although late in the season when received—two weeks after strawberries had commenced to ripen here,—nearly all of them lived, and made a good growth. I have not discovered a stray plant in the entire lot."

W. K. TIPTON, Little Rock, Ark.

"I am glad to send you an order. I like your plants. I like your whole-souled manner of dealing."

J. R. THOMPSON, Harriman, Tenn.

"The plants ordered of you were received on time. The quality, count and condition of plants were all very satisfactory, for which please accept thanks."

E. A. REYNOLDS, Meadville, Pa.

"I enclose an order for strawberry plants. The plants I have received of you heretofore have always been first-class in every respect."

JOHN R. WOODROW, Newton, Iowa.